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Abstract

PURPOSE: To efficiently give the hydrophilic characteristic without lowering the characteristic such as fiber strength, and to obtain the sufficient cycle lifetime by using polyolefine group fiber sheet as the base material, and graft co-polymerizing this base material with sulfonate derivative and carbonic acid derivative so as to form a battery separator.

CONSTITUTION: A separator 3 is formed by graft co-polymerizing the non-woven fabric using polyolefine group fiber under the existence of sulfonate derivative such as parastylene sulfonic acid potassium and carbonic acid derivative such as acrylic acid. A positive electrode 1 and a negative electrode 2 are overlapped with each other through the separator 3, and spirally wound so as to form a spiral electrode body 4, and this spiral electrode body 4 is inserted into a battery case 5, in which an insulator 13 is arranged in the bottom part, and an insulator 14 is arranged on the inserted spiral electrode body 4.